



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
09/849,967	09/849,967 05/08/2001		Stuart A. Newman	51230-00601	1338		
25243	7590	09/27/2005		EXAM	EXAMINER		
		ON SCOTT, PLLC	YU, MISOOK				
3050 K STR SUITE 400	EEI, NW	•	ART UNIT	PAPER NUMBER			
WASHINGT	ron, do	20007	1642				
				DATE MAILED: 09/27/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)					
0.55		09/849,967		NEWMAN ET AL.					
Office A	ction Summary	Examiner		Art Unit					
		MISOOK YU	J, Ph.D.	1642					
The MAILING Period for Reply	G DATE of this communication ap	opears on the d	over sheet with the c	orrespondence ad	ldress				
WHICHEVER IS LO - Extensions of time may after SIX (6) MONTHS fi - If NO period for reply is - Failure to reply within the Any reply received by th	FATUTORY PERIOD FOR REPL DNGER, FROM THE MAILING Do be available under the provisions of 37 CFR 1. com the mailing date of this communication. specified above, the maximum statutory period be set or extended period for reply will, by statute a Office later than three months after the mailing strent. See 37 CFR 1.704(b).	DATE OF THIS .136(a). In no event d will apply and will e te, cause the applica	S COMMUNICATION, however, may a reply be time expire SIX (6) MONTHS from the string to become ABANDONE). lely filed the mailing date of this co O (35 U.S.C. § 133).	•				
Status									
1) Responsive t	o communication(s) filed on 24 M	May 2005, and	I 9/20/2005 (intenziew	w)					
2a) ☐ This action is		-		<u>v)</u> .					
′=	· _								
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims	·		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.0.210.					
<u> </u>		nonding in the	annliaation						
	Claim(s) 1-6, 9-15,21,29,30 and 55-64 is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) <u>1-6,9-15,21,29,30, 56, 59, and 60</u> is/are allowed.								
	Claim(s) 57,58 and 61-64 is/are rejected.								
· · · · · · · · · · · · · · · · · · ·	Claim(s) <u>55</u> is/are objected to. Claim(s) are subject to restriction and/or election requirement.								
	are subject to restriction and/	or election req	ullement.						
Application Papers									
9) The specificat	ion is objected to by the Examin	er.	•						
10) The drawing(s	s) filed on is/are: a)□ acc	cepted or b)	objected to by the E	xaminer.					
Applicant may	not request that any objection to the	e drawing(s) be	held in abeyance. See	37 CFR 1.85(a).					
Replacement of	drawing sheet(s) including the correc	ction is required	if the drawing(s) is obj	ected to. See 37 CF	FR 1.121(d).				
11) The oath or de	eclaration is objected to by the E	Examiner. Note	the attached Office	Action or form PT	O-152.				
Priority under 35 U.S.	C. § 119								
a)□ All b)□ S	ent is made of a claim for foreign	•		-(d) or (f).					
	1. Certified copies of the priority documents have been received.								
	d copies of the priority documen								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
	tion from the International Burea	•	` ''						
See the attach	ed detailed Office action for a list	t of the certifie	a copies not received	d					
									
Attachment(s)	Cited (DTO 900)		\ ⊠	VDTO 445:					
 Notice of References (Notice of Draftsperson 	Sited (PTO-892) 's Patent Drawing Review (PTO-948)	4) M Interview Summary (Paper No(s)/Mail Da						
3) 🔲 Information Disclosure	Statement(s) (PTO-1449 or PTO/SB/08) 🔲 Notice of Informal Pa)-152)				
Paper No(s)/Mail Date 6) Other:									

Application/Control Number: 09/849,967 Page 2

Art Unit: 1642

DETAILED ACTION

This supplemental Office action is in response to the telephonic interview conducted on 9/20/2005 with Mr. John Coulby. This Office action is reiteration of the previous Office action with the exception of correcting typos in the Office action summary, and to include status of claims 59, and 60.

Claim Objections

Claim 55 is newly objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The specification at Examples 1 at page 59, FGFR2 exon 8 has ESS. However, claim 55 is drawn more than ESS.

Claim Rejections - 35 USC § 112, Withdrawn

The rejection of claims 1-15, 21, 29, 30, and 55-64 under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement is **withdrawn** because applicant argument is persuasive.

The rejection of claims 1-15, 21, 29, 30, 55, and 56 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement is withdrawn in view of the amendment.

Claim Rejections - 35 USC § 102

Claims 57, 58, 61-64 **remain rejected** under 35 U.S.C. 102(b) as being anticipated by Purcell and Martin (J. Virol.,1993, vol. 67, pages 6365-78) as evidenced

by Damgaard et al., (2002, RNA, vol. 8, pages 1401-1415) and by <u>Section 2. Virology</u> (total 5 pages) of Medical Microbiology (S. Baron, ed) downloaded from url>>cbi.nlm.nih.gov/books on 4/20/2004.

Claims 57, 58, 61-64 are interpreted as drawn to method with only one manipulative active step i.e. introducing into a cell a plurality of RNA polynucleotide sequences consisting essentially of at least one intronic splicing (ISS) in claims 57, and 58, exonic splicing silencer (ESS) in claims 61, and 62, exonic splicing enhancer (ESE) in claims 63 and 64, wherein the introduced polynucleotide sequences compete with at least one endogenous RNA sequence for interacting with the hnRNP A protein or hnRNP A1 protein or hnRNP A protein.

Applicant argues that the product used in the amended claims with the transitional phrase "consisting essentially of" is different from the HIV genome of Purcell and Marin used in the study of infecting HIV-1 virus to lymphocytes or human T-cell lines by contacting the cell lines with HIV-1 virus. This argument has been fully considered but found unpersuasive/ The amended claims 56, 57, 58, 61-64 as currently construed still read on the procedure of infecting HIV-1 virus to lymphocytes or human T-cell lines by contacting said cell lines with HIV-1 virus disclosed in lines 4-5 of abstract, and page 6366, right column, under the heading "Cell culture, transfections, and infections", page 6374 under the heading "Infectivity of splicing mutants of HIV-1" of Purcell and Martin (cited above) because the transitional phrase "consisting essentially of" is interpreted as open (i.e. same scope as "comprising") unless the specification as originally filed defines the scope to be otherwise. As stated before in the previous

Office action, HIV-1 RNA inherently has ESS, and other sequences (as evidenced by Damgaard et al., note abstract, page 1403, Table 1) that hnRNP A1 (species of hnRNP A) binds to. In summary, the product used in the amended base claims still read on the HIV-1 genome, which comprises ESS, ISS, and ESE.

Rejection of all other claims not repeated here is withdrawn because the amended claims are no longer anticipated by the art if record.

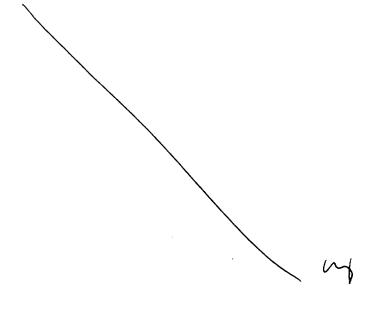
Allowable Subject Matter

Claims 1-6, 9-15, 21, 29, 30, 56, 59, and 60 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MISOOK YU, Ph.D. whose telephone number is 571-272-0839. The examiner can normally be reached on 8 A.M. to 5:30 P.M., every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



Application/Control Number: 09/849,967 Page 5

Art Unit: 1642

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MISOOK YU, Ph.D. Examiner
Art Unit 1642

misor (